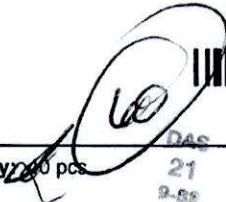


	Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada	D5616-1 Job Sheet 196817
Tel (613) 632-5200 Fax 613 632-5246		
Part No: D5616-1 Part Name: Clamp	Job Qty: 20 pcs	 DAS 21 B-58
	Part Weight: 0 lbs	Status: New
Job Created: 6/21/19	Job Tracking No:	Priority: Medium
Due Date: 7/12/19	Created By: Marie Lajeunesse	
Type: SOLD	Description:	
Note: D5616-1 REV.A IPP REV.A NEW ISSUE 18/11/01 JFS VERIFIED BY:DD		
Ship Via:		
Bill of Materials		


Container No: S196458

Part: D5616-1
Job No: 196817
Serial No/Batch: S196458
Revision: A
Inspector:
Exp Date:
Instructions: TBD

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 07/08/19

Job Routing						
Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs Run Hrs	Workcenter/Supplier
100	Purchasing	40 pcs	7/12/19	7/12/19	0.00 0.00	Purchasing - 1
						Purchasing - 2
						Purchasing - 3
110	Packaging 2-1 - Receive - B4B	40 pcs	7/12/19	7/12/19	0.00 0.00	Packaging 2 - 1 - B4B
						Packaging 2 - 2 - B4B
						Packaging 2 - 3 - B4B
						Packaging 2 - 5 - B4B
						Packaging 2 - 4 - B4B
						Packaging 2 - 6 - B4B
						Packaging 2 - 7 - B4B
						Packaging 2 - 8 - B4B
						Packaging 2 - 9 - B4B
						Packaging 2 - 10 - B4B
						Packaging 2 - 11 - B4B
						Packaging 2 - 12 - B4B
						Packaging 2 - 13 - B4B
						Packaging 2 - 14 - B4B
						Packaging 2 - 15 - B4B
						Packaging 2 - 16 - B4B
						Packaging 2 - 17 - B4B
						Packaging 2 - 18 - B4B
						Packaging 2 - 19 - B4B
						Packaging 2 - 20 - B4B
						Packaging 2 - 21 - B4B
						Packaging 2 - 22 - B4B
						Packaging 2 - 23 - B4B
						Packaging 2 - 24 - B4B
						Packaging 2 - 25 - B4B
						Packaging 2 - 26 - B4B
						Packaging 2 - 27 - B4B
						Packaging 2 - 28 - B4B
						Packaging 2 - 29 - B4B
						Packaging 2 - 30 - B4B
						Packaging 2 - 31 - B4B
						Packaging 2 - 32 - B4B
						Packaging 2 - 33 - B4B
						Packaging 2 - 34 - B4B
						Packaging 2 - 35 - B4B
						Packaging 2 - 36 - B4B
120	QC 6	40 pcs	7/12/19	7/12/19	0.00 0.00	QC 6 - 9
						QC 6 - 68
						QC 6 - 61
						QC 6 - 40
130	Packaging 3-1 - Stock - B4B	40 pcs	7/12/19	7/12/19	0.00 0.00	Packaging 3 - 1 - B4B
						Packaging 3 - 2 - B4B
						Packaging 3 - 3 - B4B
						Packaging 3 - 4 - B4B
						Packaging 3 - 5 - B4B
140	QC 21 - SA	40 pcs	7/12/19	7/12/19	0.00 0.00	QC 21 - SA - 21
						QC 21 - SA - 70
						QC 21 - SA - 53

Part Op 100 - Issue P/O: _____ McMaster Carr Material release note required
 Descriptions: 110 - Receive & Inspect for Damage & Mat'l Certs

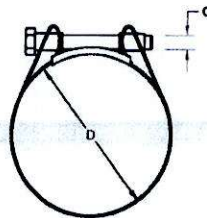
6/21/2019

[Dart Hawkesbury] Job Sheet - Lajeunesse, Marie

Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
5462K64	Clamp	40 Ea (1 ea)	100-Purchasing	5196457
Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	5462K64	40	2	0
Part Specifications				
Specifications could not be found.				

Plex 6/21/19 9:03 AM Dart.lajeunesse.marie

SPECIFICATION CONTROL DRAWING



D5616-1 CLAMP

DART P/N	A	B	C	D	DESCRIPTION	WEIGHT	MANUFACTURER	MANUFACTURER P/N	VENDOR	VENDOR P/N
D5616-1	0.96	1.08	M0X1.25	3.563 3.618	SUPRA HEAVY DUTY HOSE CLAMP STAINLESS STEEL W4 61-67	0.28 lbs	MIKALOR	03013227	MAIN INDUSTRIAL SALES	18-0040197
									MCMaster CARR	5462K64

- NOTES:**
- 1) MATERIAL: 304 STAINLESS STEEL
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER MANUFACTURER'S SPECIFICATION
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
 - 7) WEIGHT: SEE TABLE

RELEASED

2018 NOV 12
BCH 19-937

REV.	NEW ISSUE	DESCRIPTION	BY	DATE
DESIGN	SAD	DART AEROSPACE LTD		
DRAWN	ZF	HAWKESBURY, ONTARIO, CANADA		
CHECKED	AW	DRAWING NO.		
MFG. APPR.	DD	D5616		
APPROVED	NO	TITLE		
DE APPR.	CP	CLAMP		
DATE	18.03.05			

APPROVED

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SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 196 817 MJS
1906-21

Entered: _____ Date: _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE



NCR No. _____		Route update only ☐																													
Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Eng. (Non-AW) ☐ Engineering ☐ Machining ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Water Jet ☐ Large Fab ☐ Finishing ☐ Rec/Store/Packaging ☐ Supplier ☐ Quality ☐																													
Date : _____	Sequence #: _____	QTY Affected : _____	MRB (QS1042)																												
Description Work Order Deviation		Disposition																													
		Completed By																													
		Lead hand / Supervisor																													
		QC / QA Coordinator																													
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐	FAULT CATEGORY <table border="0"> <tr> <td>☐ Pressure/Forced</td> <td>☐ Contamination</td> <td>☐ Power Loss/Surge</td> <td>☐ Positioned Wrong</td> </tr> <tr> <td>☐ Bending</td> <td>☐ Misaligned/off center</td> <td>☐ Folio/Program</td> <td>☐ Outside Tolerance</td> </tr> <tr> <td>☐ Crushing</td> <td>☐ BOM/Route</td> <td>☐ Grain Direction</td> <td>☐ Drawing</td> </tr> <tr> <td>☐ Cracks</td> <td>☐ Broken/Damage/Defect</td> <td>☐ Weld</td> <td>☐ Finish</td> </tr> <tr> <td>☐ Crimp/Kink/Ripple/Wave/Twist</td> <td>☐ Incomplete/Unclear Instructions</td> <td>☐ Wrong Stock Pulled</td> <td>☐ Part Lost/Missing</td> </tr> <tr> <td>☐ Marks/Chatter</td> <td>☐ Drill Holes</td> <td>☐ Out of Sequence</td> <td>☐ Misread</td> </tr> <tr> <td>☐ Mislabeled</td> <td>☐ Fit/Function</td> <td>☐ Off-set/Set-up</td> <td></td> </tr> </table>			☐ Pressure/Forced	☐ Contamination	☐ Power Loss/Surge	☐ Positioned Wrong	☐ Bending	☐ Misaligned/off center	☐ Folio/Program	☐ Outside Tolerance	☐ Crushing	☐ BOM/Route	☐ Grain Direction	☐ Drawing	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Finish	☐ Crimp/Kink/Ripple/Wave/Twist	☐ Incomplete/Unclear Instructions	☐ Wrong Stock Pulled	☐ Part Lost/Missing	☐ Marks/Chatter	☐ Drill Holes	☐ Out of Sequence	☐ Misread	☐ Mislabeled	☐ Fit/Function	☐ Off-set/Set-up	
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☐ Mislabeled	☐ Fit/Function	☐ Off-set/Set-up																													
Other/Details:																															



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **POHB043868**



REVISED

Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Attention: N/A,

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB043868

PO Date: 6/27/19

Due Date: 7/2/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		PC250-560	92373A271 10/pk	Anchor Pin	Firmed	-	7/2/19	10 Ea	0 Ea	10 Ea	\$0.648/Ea	\$6.48
2		188-FSCS-1032-5/8	92210A303 100/per pk	Flat socket cap Screw	Firmed	-	7/2/19	100 Ea	0 Ea	100 Ea	\$0.0761/Ea	\$7.61
3		4804T151		Thick-Wall 304/304L Stainless Steel Unthreaded Pipe, 1 Pipe Size, 1 Foot Long	Firmed	-	7/2/19	2 ft	0 ft	2 ft	\$44.23/ft	\$88.46
4	196817	5462K64	1/pk	Clamp	Firmed	-	7/2/19	60 Ea	0 Ea	60 Ea	\$12.88/Ea	\$772.80
5		6659K681	1/pk	Oil-Embedded Flanged Sleeve Bearing for 10 mm Shaft X 13 mm Housing X 12 mm Long	Firmed	-	7/2/19	4 Ea	0 Ea	4 Ea	\$2.50/Ea	\$10.00
6		90293A139		17-4PH T-Handle Locking Quick Release Pin 1/4" Dia. X 1-3/4" Usable Length	Firmed	-	7/2/19	1 Ea	0 Ea	1 Ea	\$22.40/Ea	\$22.40
7		90692A696	250/pk	Zinc Plated Steel Spring Pin 1/8" Dia. X 5/8" Long	Firmed	-	7/2/19	250 Ea	0 Ea	250 Ea	\$0.0314/Ea	\$7.85
8		90695A041	100/pk	Steel Class 04 Thin Hex Nut M10 X 1.5 mm X 5 mm high	Firmed	-	7/2/19	100 Ea	0 Ea	100 Ea	\$0.1011/Ea	\$10.11

DAS
40
989

Plex 6/28/19 10:44 AM Dart.Guerin.Kimberley



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043868



Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
9		98381A438	100/pk	Steel Dowel Pin 3/32" Dia. X 1/2" Long	Firmed	-	7/2/19	100 Ea	0 Ea	100 Ea	\$0.1047/Ea	\$10.47
10		MUHMWR3.000-B	99900K999 6 ft long	UHMW Rod (Round Bar), Black item 9900K999 UHMW POLYETHYLENE ROD 3" C OF C REQUIRED	Firmed	-	7/2/19	6 ft	0 ft	6 ft	\$36.281666/ft	\$217.69
11	197001	94748A111		Pin, Quick Release receive ea	Firmed	-	7/2/19	8 Ea	0 Ea	8 Ea	\$24.42/Ea	\$195.36
12		91251A430	25/pk	Black-Oxide Alloy Steel Socket Head Screw, 3/8"-24 Thread, 1-3/4" Long, Partially Threaded	Firmed	-	7/2/19	100 Ea	0 Ea	100 Ea	\$0.4684/Ea	\$46.84
13		2147A11	1/pk	Circular Level Vial, Plastic, 1- 3/8" Base Diameter	Firmed	-	7/2/19	5 Ea	0 Ea	5 Ea	\$8.05/Ea	\$40.25
14		HT-500-010P-08	7768K26 1/PK	Check Valve	Firmed	-	7/2/19	2 Ea	0 Ea	2 Ea	\$11.28/Ea	\$22.56
15		HT-500-CWA-010P-14	41735K11 1/PK	Arrow Regulator	Firmed	-	7/2/19	2 Ea	0 Ea	2 Ea	\$32.54/Ea	\$65.08
16		MT-O1-R1.125	8893K98 6 ft	Tool Steel Round Bar Ø1.125" : Material: AISI 01 TOOL STEEL ROUND BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681	Firmed	-	7/2/19	6 ft	0 ft	6 ft	\$14.97/ft	\$89.82

Grand Total: \$1,613.78



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER
POHB043868



Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/28/19 10:44 AM Dart.Guerin.Kimberley



McMASTER-CARR®

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB043868

Order Placed By
Kimberley Guerin

McMaster-Carr Number
6548563-03

Page 1 of 2

06/28/2019

Packing List

Line	Product	Ordered	Shipped
1	92373A271 18-8 Stainless Steel Slotted Spring Pin, 3/16" Diameter, 3" Long, Packs of 10	1 Pack	1
2	92210A303 18-8 Stainless Steel Hex Drive Flat Head Screw, 10-32 Thread Size, 5/8" Long, Packs of 100	1 Pack	1
3	4804T151 Thick-Wall 304/304L Stainless Steel Unthreaded Pipe, 1 Pipe Size, 1 Foot Long	2 Each	2
4	5462K64 Tight-Seal Easy-Install Bolt Clamp for Soft Hose and Tube, 304 Stainless Steel, 3-9/16" to 3-13/16" ID	60 Each	20
5	6659K681 Oil-Embedded Flanged Sleeve Bearing for 10 mm Shaft Diameter and 13 mm Housing ID, 12 mm Long	4 Each	4
6	90293A139 T-Handle Locking Quick-Release Pin with Ring, 17-4 PH Stainless Steel, 1/4" Diameter, 1-3/4" Usable Length	1 Each	1
7	90692A696 Zinc-Plated 1050-1095 Steel Slotted Spring Pins, 1/8" Diameter, 5/8" Long, Packs of 250	1 Pack	1
8	90695A041 Medium-Strength Steel Thin Hex Nut, Class 04, Zinc-Plated, M10 x 1.5 mm Thread, Packs of 100	1 Pack	1
9	98381A438 Dowel Pin, 4037 Alloy Steel, 3/32" Diameter, 1/2" Long, Packs of 100	1 Pack	1
11	94748A111 Knob-Grip Push-Button Quick-Release Pin with Lanyard, 3/16" Diameter, 1" Usable Length	8 Each	8
12	91251A430 Black-Oxide Alloy Steel Socket Head Screw, 3/8"-24 Thread Size, 1-3/4" Long, Partially Threaded, Packs of 25	4 Packs	4
13	2147A11 Circular Level Vial, Plastic, 1-3/8" Base Diameter	5 Each	5
14	7768K26 Compact Backflow-Prevention Valve for Water and Inert Gas, 1/4 NPT Male x 1/4 NPT Female	2 Each	2
15	41735K11 Compressed Air Regulator, Relieving with Knob, Zinc Housing, 1/2" NPT 20/25 PSI	2 Each	2

RECEIVED

JUL 02 2019

Shipped separately from our New Jersey warehouse on 06/28

DART AEROSPACE LTD.

4	5462K64 Tight-Seal Easy-Install Bolt Clamp for Soft Hose and Tube, 304 Stainless Steel, 3-9/16" to 3-13/16" ID	60 Each	40
---	---	------------	----

Expected to ship

10	9990K999 Antistatic Slippery UHMW Polyethylene Rod, 3" Diameter X 6' Long, with Mfg. C of C	1 Each	1 Jul 9-15
----	--	-----------	------------

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB043868

Order Placed By
Kimberley Guerin

McMaster-Carr Number
6548563-03

Page 2 of 2

06/28/2019



Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB043868
Order Placed By
Kimberley Guerin

McMaster-Carr Number
6548563-01

Page 1 of 2

06/28/2019

Line	Product	Ordered	Shipped
4	5462K64 Tight-Seal Easy-Install Bolt Clamp for Soft Hose and Tube, 304 Stainless Steel, 3-9/16" to 3-13/16" ID	60 Each	40

Shipped separately from our Cleveland warehouse on 06/28

1	92373A271 18-8 Stainless Steel Slotted Spring Pin, 3/16" Diameter, 3" Long	1 Pack	1
2	92210A303 18-8 Stainless Steel Hex Drive Flat Head Screw, 10-32 Thread Size, 5/8" Long	1 Pack	1
3	4804T151 Thick-Wall 304/304L Stainless Steel Unthreaded Pipe, 1 Pipe Size, 1 Foot Long	2 Each	2
4	5462K64 Tight-Seal Easy-Install Bolt Clamp for Soft Hose and Tube, 304 Stainless Steel, 3-9/16" to 3-13/16" ID	60 Each	DAS 2040 9-89
5	6659K681 Oil-Embedded Flanged Sleeve Bearing for 10 mm Shaft Diameter and 13 mm Housing ID, 12 mm Long	4 Each	4
6	90293A139 T-Handle Locking Quick-Release Pin with Ring, 17-4 PH Stainless Steel, 1/4" Diameter, 1-3/4" Usable Length	1 Each	1
7	90692A696 Zinc-Plated 1050-1095 Steel Slotted Spring Pins, 1/8" Diameter, 5/8" Long	1 Pack	1
8	90695A041 Medium-Strength Steel Thin Hex Nut, Class 04, Zinc-Plated, M10 x 1.5 mm Thread	1 Pack	1
9	98381A438 Dowel Pin, 4037 Alloy Steel, 3/32" Diameter, 1/2" Long	1 Pack	1
11	94748A111 Knob-Grip Push-Button Quick-Release Pin with Lanyard, 3/16" Diameter, 1" Usable Length	8 Each	8
12	91251A430 Black-Oxide Alloy Steel Socket Head Screw, 3/8"-24 Thread Size, 1-3/4" Long, Partially Threaded	4 Packs	4
13	2147A11 Circular Level Vial, Plastic, 1-3/8" Base Diameter	5 Each	5

RECEIVED

JUL 02 2019

DART AEROSPACE LTD.

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB043868

Order Placed By
Kimberley Guerin

McMaster-Carr Number
6548563-01

Page 2 of 2

06/28/2019

Line	Description	Ordered	Shipped
14	7768K26 Compact Backflow-Prevention Valve for Water and Inert Gas, 1/4 NPT Male x 1/4 NPT Female	2 Each	2
15	41735K11 Compressed Air Regulator, Relieving with Knob, Zinc Housing, 1/4 NPT, 2-125 PSI	2 Each	2
16	8893K98 Tight-Tolerance Multipurpose O1 Tool Steel Rod, 1.1250" Diameter, 6 Feet Long	1 Each	1
Expected to ship			
10	9990K999 Antistatic Slippery UHMW Polyethylene Rod, 3" Diameter X 6' Long, with Mfg. C of C	1 Each	1 Jul 9-15